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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/690,883	10/22/2003	James A. Fisher	TUC920030096US1	6818

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LAW OFFICE OF CHARLES W. PETERSON, JR. TUCSON  
11703 BOWMAN GREEN DR  
suite 100  
RESTON, VA 20190

EXAMINER
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PHAM, MICHAEL

ART UNIT	PAPER NUMBER
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2167

DATE MAILED: 05/19/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

10/690,883

Applicant(s)

FISHER ET AL.

Examiner

Michael D. Pham

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 22 October 2003.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-19 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-19 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)                        | 4) <input type="checkbox"/> Interview Summary (PTO-413)                     |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)               | Paper No(s)/Mail Date. _____  |
| 3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date <u>10/22/2003</u> .  | 6) <input type="checkbox"/> Other: _____                                    |

**Detailed Action**

1. Claims 1 - 19 have been examined.
2. Claims 1 - 19 are pending.
3. Claims 1 - 19 are rejected as detailed below.

***Priority***

The application does not claim foreign nor domestic priority. Accordingly, the application has been examined with an effective filing date of 10/22/2003.

***Specification***

The specification is objected to as failing to provide proper antecedent basis for the claimed subject matter. See 37 CFR 1.75(d)(1) and MPEP § 608.01(o). Correction of the following is required: What comprises a computer readable medium is not properly defined in the specifications. Computer-readable medium does not appear to be within the specifications. Therefore, it appears that computer-readable medium may comprise anything under the sun such as carrier waves.

***Claim Rejections - 35 USC § 112***

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 2-7 recite the limitation "A computer-readable medium" as the first few words of the claim. There is insufficient antecedent basis for this limitation in the claim.

Claims 9-13 recite the limitation "A collaborative design system" as the first few words of the claim. There is insufficient antecedent basis for this limitation in the claim.

Claims 15-16 recite the limitation "A system" as the first few words of the claim. There is insufficient antecedent basis for this limitation in the claim.

Claims 18-19 recite the limitation "A program product" as the first few words of the claim. There is insufficient antecedent basis for this limitation in the claim.

***Claim Rejections - 35 USC § 101***

35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claims 1-7 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. The claim does not appear to limit the computer readable medium to embodiments, which fall within a statutory category.

Claims 8-16 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. All the elements would reasonably be interpreted by one of ordinary

skill in light of the disclosure [0018] as software. It appears that no hardware component is required to enable the functions to be realized.

Claims 17-19 are rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter. The claim does not appear to limit the computer usable medium to embodiments, which fall within a statutory category. Further, there appears to be no hardware component to enable the functions of the program code to be realized and therefore it is software per se.

***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1-3, 8, 11, 13, 14, and 17 are rejected under 35 U.S.C. 102(e) as being anticipated by U.S. Patent 7039658 by Starkey (hereafter Starkey).

**Claim 1:**

**A computer-readable medium having stored thereon a data structure for data presented in tabular lists in a web based management interface, said data structure comprising:**

**a page pointer table including link entries for each of a plurality of web pages selectable for display** [Col. 2 lines 18-20, web pages are selectable for display. Col. 5 lines 30-36, web pages stored on application server. On Col. 5 lines 48-50, application server contains a relational data management structure that contains data tables to store and link the information.];

**one or more repeatable data structures, each of said repeatable data structures being linked to one of said plurality of web pages** [Col. 7 lines 45-46 templates are repeatable data structures linked to web pages] and

**one or more page maps, each of said repeatable data structures having a corresponding page map, each said corresponding page map pointing to one or more corresponding tabular lists in a corresponding repeatable data structure** [Col. 7 lines 64-67, templates have names (i.e. corresponding map) that further use criteria by defining a particular table (i.e. points to one or more corresponding tabular lists). ].

**Claim 2:**

**A computer-readable medium as in claim 1, wherein said page pointer table includes at least one null entry for a web page that does not include any said repeatable data structure** [Col. 6 lines 9-11 and Col. 7 lines 1-15, null entry for web page access indicates no template is available and a new session is created.].

**Claim 3:**

**A computer-readable medium as in claim 1, wherein said page pointer table includes a link to each of said one or more page maps** [Col. 6 lines 24-25 template manager is an interface

between applications and the templates. That is, a link between page pointer table and page map.].

**Claim 8:**

**A collaborative design system for designing web-based management interfaces with design functions distributed amongst a number of design groups, each said web-based management interface providing selection amongst a plurality of web pages selectable for display, said system comprising:**

**a data generation module generating variable data for display** [Col. 6 lines 34-36, the invention contains modules that facilitates web page development and generation of responses that will produce a web page image at a browser.];

**a collection of hypertext mark up language (HTML) template files, ones of said HTML template files including placeholders in markup text for dynamic input data** [Col. 1 lines 60-64, template files contains locations for code that controls web page semantics];

**a page generation module selectively providing HTML documents from said HTML template files, said page generation module combining said variable data with said placeholders in selected said ones** [Col. 1 lines 54-64, active page server processes the combination of template and code to produce the html documents.]; and

**each of said data generation module and said page generation module including a page pointer table with a single entry for each of said HTML template files** [Col. 5 lines 30-36, web pages stored on application server. On Col. 5 lines 48-50, application server contains a relational data management structure that contains data tables to store and link the information.

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That is there exists a table with an entry for each of html template files.], **each said single entry for each of said ones pointing to a corresponding repeatable data structure** [Col. 7 lines 45-46 templates are repeatable data structures linked to web pages] **and a page map for tabular data lists in said corresponding repeatable data structure, said tabular data lists being displayed as a table on a generated said HTML document** [Col. 7 lines 64-67, templates have names (i.e. corresponding map) that further use criteria by defining a particular table (i.e. points to one or more corresponding tabular lists). ].

**Claim 11:**

**A collaborative design system as in claim 8, wherein at least one said page map includes a plurality of entries, each of said plurality of entries pointing to a corresponding one of said tabular data lists** [Col. 7 lines 64-67, templates have names (i.e. corresponding map) that further use criteria by defining a particular table (i.e. points to one or more corresponding tabular lists). ].

**Claim 13:**

**A collaborative design system as in claim 8, wherein design responsibility for each of said data generation module, said page generation module and said HTML template files is assignable to a different design group** [Figure 1, Application server (page generator), Applicatoins (data generation module), Template manager (html template files), are different design groups.].



**Claim 14:**

**A system having a web-based management interface providing selection amongst a plurality of web pages selectable for display, said web-based management interface comprising:**

**a data generation module generating variable data for display** [Col. 6 lines 34-36, the invention contains modules that facilitates web page development and generation of responses that will produce a web page image at a browser.];

**a hypertext mark up language (HTML) template file collection, ones of said HTML template files including placeholders in markup text for dynamic input data** [Col. 1 lines 60-64, template files contains locations for code that controls web page semantics];

**a page generation module selectively providing HTML documents from said HTML template files, said page generation module combining said variable data with said placeholders in selected said ones** [Col. 1 lines 54-64, active page server processes the combination of template and code to produce the html documents.]; and

**each of said data generation module and said page generation module including a page pointer table with a single entry for each of said HTML template files** [Col. 5 lines 30-36, web pages stored on application server. On Col. 5 lines 48-50, application server contains a relational data management structure that contains data tables to store and link the information. That is there exists a table with an entry for each of html template files.], **each said single entry for each of said ones pointing to a corresponding repeatable data structure** [Col. 7 lines 45-46 templates are repeatable data structures linked to web pages] **and a page map for tabular data lists in said corresponding repeatable data structure, said tabular data lists being**

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**displayed as a table on a generated said HTML document** [Col. 7 lines 64-67, templates have names (i.e. corresponding map) that further use criteria by defining a particular table (i.e. points to one or more corresponding tabular lists).].

**Claim 17:**

A program product for managing a system, said computer program product comprising a computer usable medium having computer readable program code thereon, said computer readable program code comprising:

**computer readable program code means for generating variable data for display** [Col. 6 lines 34-36, the invention contains modules that facilitates web page development and generation of responses that will produce a web page image at a browser.] **and storing generated said variable data according to a page pointer table, said page pointer table having a single entry for each of a plurality of hypertext mark up language (HTML) files** [Col. 5 lines 30-36, web pages stored on application server. On Col. 5 lines 48-50, application server contains a relational data management structure that contains data tables to store and link the information. That is there exists a table with an entry for each of html template files.], **each said single entry pointing to a corresponding repeatable data structure** [Col. 7 lines 45-46 templates are repeatable data structures linked to web pages] **and a page map for tabular data lists in said corresponding repeatable data structure, said tabular data lists listing said generated data** [Col. 7 lines 64-67, templates have names (i.e. corresponding map) that further use criteria by defining a particular table (i.e. points to one or more corresponding tabular lists).];

**computer readable program code means for defining said plurality of HTML files**  
[Col. 2 lines 66-67 to col. 3 lines 1-19, defines template files with name, body, and selection criteria.]; and

**computer readable program code means for selectively generating HTML documents from defined said HTML files and stored said variable data** [Col. 1 lines 54-64, active page server processes the combination of template and code to produce the html documents.].

***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 4-7, 9-10, 12, 15-16, and 18-19 are rejected under 35 U.S.C. 103(a) as being unpatentable over U.S. Patent 7039658 by Starkey (hereafter Starkey) as applied to claims 1-3, 8, 11, 13, 14, and 17 above, and further in view of U.S. Patent Application Publication 2002/0138509 by Burrows et. al. (hereafter Burrows).

**Claim 4:**

**Starkey does not explicitly disclose wherein said page pointer table indicates the length of each of said one or more page maps.**

On the other hand Burrow, 0041, discloses for that there is the ability to put a limit on the length of reference chains for decompressing a row.

Both inventions are directed towards web databases. It would have been obvious to one of ordinary skill to have modified Starkey to have included wherein each entry in said plurality of entries includes an offset from a first listed data element and a plurality of listed data elements in said corresponding one based on the disclosure of Burrows. A skilled would have been motivated to do so for the purpose of facilitating row decompression. Allowing memory to be saved.

**Claim 5:**

**A computer-readable medium as in claim 4, wherein at least one said corresponding page map includes a plurality of entries, each of said plurality of entries pointing to a corresponding one of said corresponding tabular lists [Col. 7 lines 64-67, templates have names (i.e. corresponding map) that further use criteria by defining a particular table (i.e. points to one or more corresponding tabular lists). ].**

**Claim 6:**

Starkey does not explicitly disclose **wherein each entry in said plurality of entries includes an offset from a first listed data element and a plurality of listed data elements in said corresponding one.**

On the other hand, Burrows, 0065, discloses an offset for a corresponding row. Further disclosing that the offset is used to facilitate link database compression.

Both inventions are directed towards web databases. It would have been obvious to one of ordinary skill to have modified Starkey to have included wherein each entry in said plurality of entries includes an offset from a first listed data element and a plurality of listed data elements in said corresponding one based on the disclosure of Burrows. A skilled would have been motivated to do so for the purpose of facilitating link database compression.

**Claim 7:**

Starkey discloses, **wherein said page pointer table is included in executable modules generating selected web pages for display from said plurality of web pages** [Col. 2 lines 18-20, web pages are selectable for display. Col. 5 lines 30-36, web pages stored on application server. On Col. 5 lines 48-50, application server contains a relational data management structure that contains data tables to store and link the information.] however Starkey does not explicitly<sup>1</sup> disclose **adding web pages to said plurality of web pages increases the size of each of said**

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<sup>1</sup> Obviously adding more templates increases size.

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**executable modules only by the length of the corresponding said page pointer entry for each said added page.**

On the other hand, Burrows, 0004, discloses that that if the number of web pages in the network is large, the amount of memory required to store the url's and links in the web database will be correspondingly large. Further disclosing 0041 there is the ability to put a limit on the length of reference chains for decompressing a row.

Both inventions are directed towards web databases. It would have been obvious to one of ordinary skill in the art to have modified Starkley to have included the step of adding web pages to said plurality of web pages increases the size of each of said executable modules only by the corresponding said page pointer entry for each said added page based on the disclosure of Burrows. A skilled artisan would have been motivated to do so for the purpose of storing the web pages. By providing more web pages it provides more options for manipulation.

**Claim 9:**

Starkey does not explicitly <sup>2</sup>disclose **wherein adding HTML template files increases the size of each of said data generation module and said page generation module only by the length of a corresponding said single entry for each said added HTML template file.**

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<sup>2</sup> Obviously adding more templates increases size.

On the other hand, Burrows, 0004, discloses that that if the number of web pages in the network is large, the amount of memory required to store the url's and links in the web database will be correspondingly large. Further disclosing 0041 there is the ability to put a limit on the length of reference chains for decompressing a row.

Both inventions are directed towards web databases. It would have been obvious to one of ordinary skill in the art to have modified Starkley to have included the step of adding HTML template files increases the size of each of said data generation module and said page generation module only by the length of a corresponding said single entry for each said added HTML template file based on the disclosure of Burrows. A skilled artisan would have been motivated to do so for the purpose of storing the web pages. By providing more web pages it provides more options for manipulation.

**Claim 10:**

Starkey does not explicitly disclose **wherein each said single entry further includes a number indicating the length of said page map**. On the other hand, Burrows, 0041, discloses putting a limit on length of reference chains in a page link structure. If there is a limit there must be some indication of what the length must be in order to reach the limit.

Both inventions are directed towards web databases. It would have been obvious to one of ordinary skill at the time the invention was made to have modified Starkey to have included the step wherein each said single entry further includes a number indicating the length of said page

map based on the disclosure of Burrow. A skilled would have been motivated to do so for the purpose of facilitating row decompression. Allowing memory to be saved.

**Claim 12:**

Starkey does not explicitly disclose **wherein each entry in said plurality of entries includes an offset from a first listed data element and a number of listed data elements in said corresponding one.**

On the other hand, Burrows, 0065, discloses an offset for a corresponding row. Further disclosing that the offset is used to facilitate link database compression.

Both inventions are directed towards web databases. It would have been obvious to one of ordinary skill to have modified Starkey to have included wherein each entry in said plurality of entries includes an offset from a first listed data element and a number of listed data elements in said corresponding one based on the disclosure of Burrows. A skilled would have been motivated to do so for the purpose of facilitating link database compression.

**Claim 15:**

Starkey does not explicitly disclose **wherein each said single entry further includes a number indicating the length of said page map.** On the other hand, Burrows, 0041, discloses putting a limit on length of reference chains in a page link structure. If there is a limit there must be some indication of what the length must be in order to reach the limit.



Both inventions are directed towards web databases. It would have been obvious to one of ordinary skill at the time the invention was made to have modified Starkey to have included the step wherein each said single entry further includes a number indicating the length of said page map based on the disclosure of Burrow. A skilled would have been motivated to do so for the purpose of facilitating row decompression. Allowing memory to be saved.

**Claim 16:**

Starkey discloses **wherein at least one said page map includes a plurality of entries, each of said plurality of entries pointing to a corresponding one of said tabular data lists** [Col. 7 lines 64-67, templates have names (i.e. corresponding map) that further use criteria by defining a particular table (i.e. points to one or more corresponding tabular lists).]. However Starkey does not explicitly disclose wherein **each of said plurality of entries includes an offset from a first listed data element and a number of listed data elements in said corresponding one.**

On the other hand, Burrows, 0065, discloses an offset for a corresponding row. Further disclosing that the offset is used to facilitate link database compression.

Both inventions are directed towards web databases. It would have been obvious to one of ordinary skill to have modified Starkey to have included wherein each entry in said plurality of entries includes an offset from a first listed data element and a number of listed data elements in

said corresponding one based on the disclosure of Burrows. A skilled would have been motivated to do so for the purpose of facilitating link database compression.

**Claim 18:**

Starkey does not explicitly disclose **wherein each said single entry further indicates the length of said page map.**

On the other hand Burrow, 0041, discloses for that there is the ability to put a limit on the length of reference chains for decompressing a row. If there is a limit there must be some indication of what the length must be in order to reach the limit.

Both inventions are directed towards web databases. It would have been obvious to one of ordinary skill to have modified Starkey to have included wherein each entry in said plurality of entries includes an offset from a first listed data element and a plurality of listed data elements in said corresponding one based on the disclosure of Burrows. A skilled would have been motivated to do so for the purpose of facilitating row decompression. Allowing memory to be saved.

**Claim 19:**

Starkey does not explicitly disclose **wherein each entry in each said page map includes an offset pointing to a corresponding one of said tabular data lists and a number of listed data elements in said corresponding one.**

On the other hand, Burrows, 0065, discloses an offset for a corresponding row. Further disclosing that the offset is used to facilitate link database compression.

Both inventions are directed towards web databases. It would have been obvious to one of ordinary skill to have modified Starkey to have included wherein each entry in said plurality of entries includes an offset from a first listed data element and a number of listed data elements in said corresponding one based on the disclosure of Burrows. A skilled would have been motivated to do so for the purpose of facilitating link database compression.

### *Conclusion*

The prior art made of record and not relied upon, if any, is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael D. Pham whose telephone number is (571) 272-3924. The examiner can normally be reached on Monday - Friday 8am - 4:00pm.

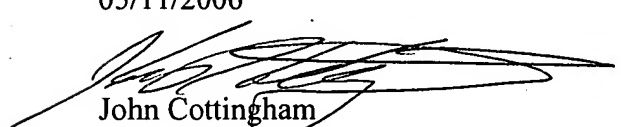
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John Cottingham can be reached on 571-272-7079. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Michael Pham  
Art Unit 2167  
Examiner  
05/11/2006

Debbie Le  
Art Unit 2168  
Primary Examiner  
05/11/2006



John Cottingham  
Art Unit 2167  
Supervisor  
05/11/2006

